



TIG - Without filler wire

Closed chamber welding head

for welding of tube-to-tube joints





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Easy to use, highest quality and productivity

General characteristics

Advantages

- ▶ Oxidation-free welds
- ▶ Optimised ergonomics, easy to use
- ▶ High duty cycle
- ▶ Respecting international standards and norms (EHEDG, ASME, FDA...)
- ▶ Compatible with all Polysoude™ Power Sources

Resulting from 50 years' experience in mastering welding technologies

Reversible hook for an enlarged range of clamping tolerances

Interchangeable flexible titanium Tube Clamp Inserts – TCI's™. Comply with standard tube O.D. sizes and tolerances, for hygienic and high purity requirements

Narrow welding head profile for use in areas with constrained axial and radial clearance

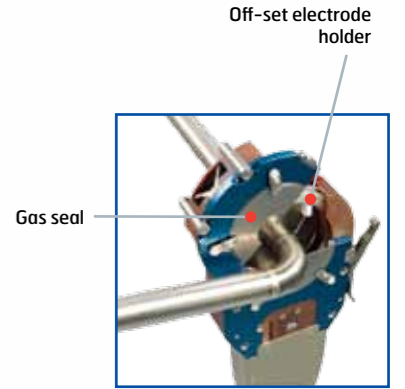
Closed loop regulation to ensure precise, constant or pulsed welding speed

Return-to-home feature: the electrode gear automatically returns to its loading position

Particularly designed for high duty cycle applications by means of high temperature resistant materials and closed loop water cooling

Encoder for position based control of the welding program

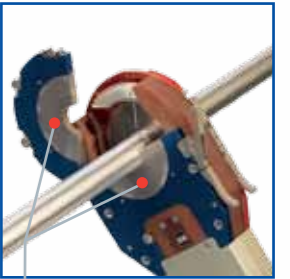
Remote control



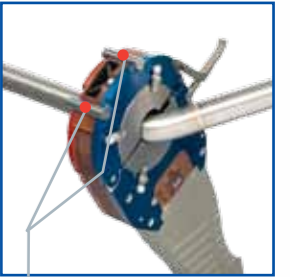
Gas seal

Off-set electrode holder

Elbow kit



Flexible Titanium Tube Clamp Inserts –TCI's™



Reinforcement bars



Integrated remote control

Associated Power Sources



▶ PS 164-2

160 A, "all inclusive", portable, single-phase power supply



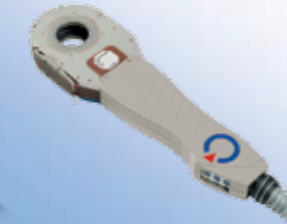
▶ P4

170 A, "modular", portable, programming by PC or touch screen, single-phase power supply

The Complete Range



MW 34



MW 65



MW 115



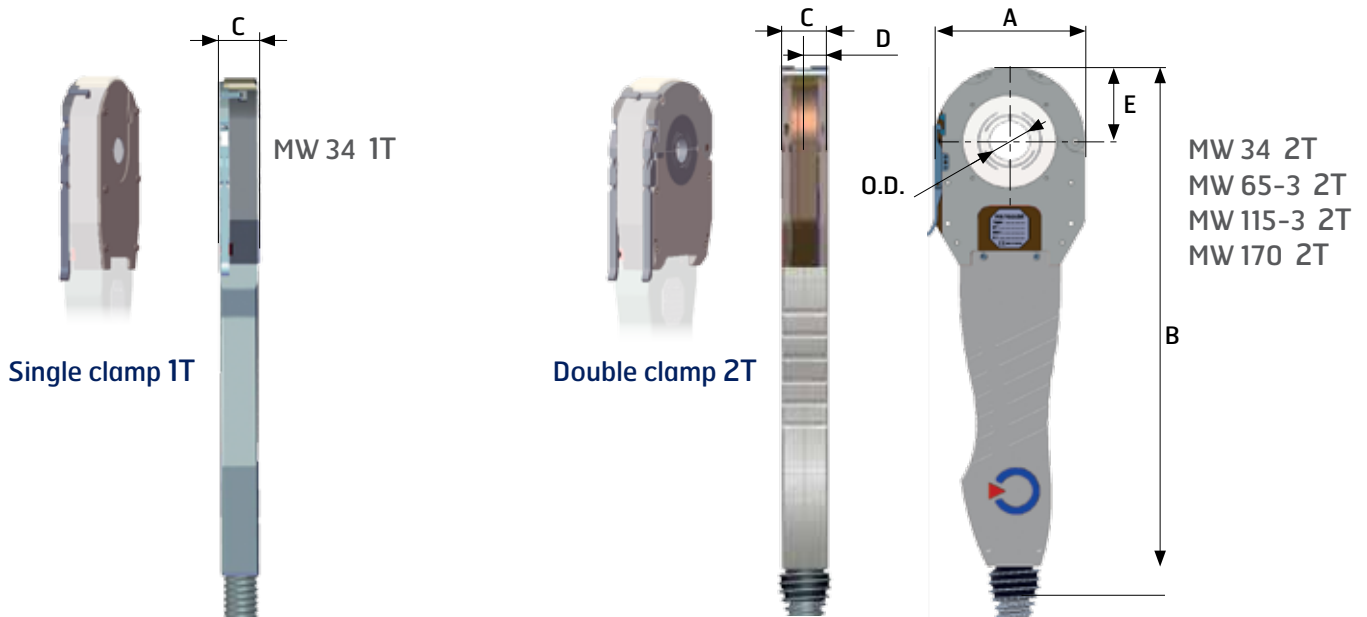
MW 170

Technical specifications

Type	Tube O.D. in mm / inches		Dimensions in mm / inches					Net weight in kg / lbs
	from	to	A	B	C	D	E	
MW 34 1T	6 - 34 mm	1/4" - 1 11/32"	95 (3.74")	350 (13.78")	31.25 (1.23")	16.9 (0.75")	50 (1.97")	6 (13)
MW 34 2T	6 - 34 mm	1/4" - 1 11/32"	95 (3.74")	350 (13.78")	33.7 (1.33")	16.9 (0.75")	50 (1.97")	6 (13)
MW 65-3 2T	6 - 65 mm	1/4" - 2 9/16"	126 (4.96")	458 (18.03")	38 (1.50")	19 (0.75")	63 (2.48")	7 (15)
MW 115-3 2T	12 - 115 mm	11/32" - 4 17/32"	200 (7.87")	547 (21.54")	46 (1.81")	23 (0.91")	100 (3.94")	9 (20)
MW 170 2T	80 - 170 mm	3 5/32" - 6 23/32"	290 (11.42")	580 (22.83")	63 (2.48")	31.5 (1.22")	145 (5.71")	18 (44)

Type	Electrode offset					
	1-5 mm / 0.04-0.2"		2-11 mm / 0.08-0.43"		3-5 mm / 0.08-0.43"	
Max. tube O.D. in mm / inches						
MW 34 1T/2T	25.4 mm	1"	/	/	/	/
MW 65-3 2T	60.3 mm	2 3/8"	42.4 mm	1 21/32"	/	/
MW 115-3 2T	114.3 mm	4 1/2"	101.6 mm	4"	/	/
MW 170 2T	/	/	/	/	168.3 mm	6-5/8"

Cable length: 5.5 m



Options and accessories

- Titanium Tube Clamp Inserts – TCI's™ for all tube and pipe O.D.s, available both in metric and imperial sizes
- Elbow-kit with off-set electrode holder, single sided tube clamping and gas seal, designed for fittings or components with short stick-out
- Extension cable (15 m)
- Dual welding head switch box
- Compact shipping case for transport and storage
- Tungsten electrodes, pre-sharpened and pre-cut

 Adapted for all your applications!



"Learning to use the equipment took me less than one day of training."

POLYSOUDE : Related services

► Guidance and technical support

A welding application specialist in your area will advise you on the welding process and appropriate equipment for your application.

► Commissioning / Training

A complete training program will enable you to start using the equipment immediately and in the best way possible.

► Maintenance / Repair

Maintenance and repair operations can be carried out at the Polysoude plant as well as on site by our service network.

► Rental service

Increase the flexibility of your production! A large range of equipment is available for rental from our hire fleet.

Your partners worldwide

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